

PROJECT DESCRIPTION

THIS PROJECT INVOLVES INSTALLING APS AT THE INTERSECTION, RELOCATION OF PEDESTAL POLES AND SIDEWALK RAMP RECONSTRUCTION MD 528 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THIS INTERSECTION WILL OPERATE IN A NEMA FIVE-PHASE FULL-TRAFFIC-ACTUATED MODE WITH AN ALTERNATE PEDESTRIAN PHASES FOR THE SOUTH AND WEST LEGS OF THE INTERSECTION. THE MD 528 LEFT TURNS OPERATE IN EXCLUSIVE-PERMISSIVE PHASING.

CONTROLLER REQUIREMENTS

THE EXISTING FULL-TRAFFIC-ACTUATED EIGHT PHASE TRAFFIC SIGNAL CONTROLLER HOUSED IN A BASE MOUNTED CABINET SHALL BE USE. AN APS CENTRAL CONTROL UNIT SHALL BE FURNISHED BY THE CONTRACTOR AND INSTALLED BY SHA.

CONTACT PERSONS FOR DISTRICT #1 ARE AS FOLLOWS:

MR. GENE COFIELL
ASSISTANT DISTRICT ENGINEER-TRAFFIC
PHONE: (410) 677-4040

MR. RAVINDRA GANVIR
ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
PHONE: (410) 677-4020

MR. JAMES WRIGHT
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 677-4010

CONTACT PERSONS FOR OOTS ARE AS FOLLOWS:

MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS
DIVISION
PHONE: (410)787-7630

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF
TRAFFIC OPERATIONS
PHONE: (410)787-7630

MR. ED RODENHIZER
CHIEF, SIGNAL OPERATIONS
PHONE: (410)787-7650

MR. EUGENE BAILEY
CHIEF, SIGN OPERATIONS
PHONE: (410)787-7676

SPECIAL NOTES

APS WILL FUNCTION AS FOLLOWS:

TO CROSS COASTAL HIGHWAY:

- A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT MESSAGE WILL BE "WAIT TO CROSS COASTAL HIGHWAY AT OCEAN CITY EXPRESSWAY".
- B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

TO CROSS OCEAN CITY EXPRESSWAY:

- A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT MESSAGE WILL BE "WAIT TO CROSS OCEAN CITY EXPRESSWAY AT COASTAL HIGHWAY."
- B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

WIRING KEY

A	5-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
B	2-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
EXR	EXISTING CABLE TO BE DISCONNECTED, PULLED BACK & REROUTED
EX	EXISTING CABLE TO REMAIN
PF	EXISTING UNDERGROUND POWER SERVICE BY DELMARVA
Z	STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)
+	EXISTING GROUND ROD
+	PROPOSED GROUND ROD

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA.

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
9570	SHEET ALUMINUM GROUND MOUNTED SIGN 4 - W11-2 FY (36"X36") 2 - M6-2L FY (30"X24") 2 - M6-2R FY (30"X24")	SF	56
9571	SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN 3 - R10-3(1) (9"X15")	SF	3

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
1003	MAINTENANCE OF TRAFFIC (PAID FOR ON 36TH GI)	EA	0
2002	TEST PIT EXCAVATION	CY	3
6001	F & I STANDARD TYPE A COMBINATION CURB AND GUTTER 12" GUTTER PAN 8" DEPTH	LF	108
6002	F & I 5" CONCRETE SIDEWALK	SF	460
6003	F & I DETECTABLE WARNING SURFACE FOR CURB RAMPS	SF	40
8007	F & I AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION & SIGNS	EA	1
8011	INSTALL BREAKAWAY PEDESTAL POLE - ANY SIZE	EA	2
8021	REMOVE & DISPOSE MATERIAL AND EQUIPMENT PER ASSIGNMENT (PAID FOR ON 36TH GI)	EA	0
8030	DISCONNECT, PULL-BACK & REROUTE CABLES	LF	30
8034	F & I SCHEDULE 80 RIGID PVC CONDUIT UP TO 4" - TRENCHED	LF	40
8036	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)	SF	59
8038	F & I NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	45
8054	F & I ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)	LF	110
8056	F & I ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	110
8068-A	RELOCATE EXISTING PED SIGNAL	EA	2
8000 NEG	RELOCATE AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION & SIGNS	EA	1

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076.

NONE

PHASING CHART

NO PHASE CHANGE

GENERAL NOTES

- ALL EXISTING FOUNDATION TOPS WITHIN EXISTING SIDEWALK SHALL BE REMOVED 2" BELOW SIDEWALK GRADE.
- ALL PROPOSED FOUNDATION TOPS SHALL BE INSTALLED FLUSH WITH SIDEWALK GRADE.
- ACCESSIBLE PEDESTRIAN CONTROL EQUIPMENT SHALL BE DELIVERED TO THE SHA SIGNAL SHOP FOR TESTING AND PROGRAMMING PRIOR TO INSTALLATION. CONTACT MR. EDWARD RODENHIZER AT 410-787-7652 TO COORDINATE.
- LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SECTION 4E.09 AND FIGURE 4E.2 AND THE NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE." IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNTIL A DESIGN WAIVER IS OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
- PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THAN 18" FROM A 60" X 60" LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
- THE 10' SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON, NOT CENTER TO CENTER OF POLE.
- PUSHBUTTON ARROWS AND SIGNS ARE TO BE ORIENTED PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
- ANY HARDWARE NECESSARY FOR THE INSTALLATION OF RELOCATED TRAFFIC SIGNAL EQUIPMENT SHALL BE INCIDENTAL TO THE PERTINANT RELOCATE PAY ITEM.
- THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.

TOD NO:XX443-05
SHA NO:WO409A52/CS2
MD 528@ 36TH, MD 90, 94TH ST, 142 ST

SHA

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 528 (COASTAL HWY.) AT MD 90 (62ND ST.)
OCEAN CITY, MARYLAND

REVISIONS

GENERAL INFORMATION SHEET

SCALE	1"=20'	DATE	NOVEMBER 2008	CONTRACT NO.	XX4435185
DESIGNED BY	BJG	COUNTY	WORCESTER	LOGMILE	23052804.71 & 23009011.83
DRAWN BY	BJG	TIMS NO.			
CHECKED BY	DAE	TOD NO.			
FAP NO.					
TS NO. 1429J-GI	DRAWING	SG-5	OF SG-13	SHEET NO.	5 OF 13

PLOTTED: Wednesday, December 10, 2008 AT 07:37 AM
FILE: M:\projects\2007\07025_shasha\Task06_MD 528 ADA\CADD\MD80\pGI-P009_MD90.dgn

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